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Keller et al.

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(54) **HIGH TEMPERATURE ELASTOMERS
FROM LINEAR POLY
(SILARYLENE-SILOXANE-ACETYLENE)**

FOREIGN PATENT DOCUMENTS

WO WO93/21278 A1 10/1993

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Keller et al, High Temperature Elastomers From Linear (Silarylene-Siloxane-Acetylene), Application No. 09/625,271, p. 30.

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(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 0 days.

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Related U.S. Application Data

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(51) Int. Cl.⁷ **C08G 77/44**

(52) U.S. Cl. **525/477; 528/43; 528/34; 528/32; 528/38; 528/35; 585/416; 556/410; 556/431**

(58) Field of Search **528/43, 34, 32, 528/38, 35; 525/477; 585/416; 556/410, 431**

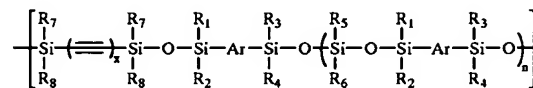
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(57) ABSTRACT

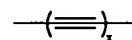
A linear polymer has repeating units represented by the formula



wherein

(a) n is an integer greater than or equal to 0,

(b) x is an integer greater than or equal to 1, and



represents an unconjugated acetylenic group when x is equal to 1 or conjugated acetylenic groups when x is greater than 1;

(c) Ar is an aromatic group, and

(c) R¹, R², R³, R⁴, R⁵, R⁶, R⁷ and R⁸ are independently selected from the group consisting of alkyl, aryl, alkylaryl, haloalkyl, haloaryl and mixtures thereof. The linear polymer may be thermally cured to form a crosslinked polymer.

17 Claims, No Drawings